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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/842,899	04/27/2001	Mohamed Anisur Rahman	2925-0469P	7572

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HARNESSE, DICKEY & PIERCE, P.L.C.
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RESTON, VA 20195

EXAMINER

RAMPURIA, SHARAD K

ART UNIT	PAPER NUMBER
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2617

MAIL DATE	DELIVERY MODE
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10/24/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/842,899

Applicant(s)

RAHMAN ET AL.

Examiner

Sharad Rampuria

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 August 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 and 34-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 34-42 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

I. The Art Unit location of this application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

Disposition of the claims

II. The current office-action is in response to the Amendment - After Non-Final Rejection filed on 08/14/2007.

Accordingly, Claims 4-33 are cancelled and Claims 1-3 and 34-42 are imminent for further assessment as follows:

Claim Rejections - 35 USC § 103

III. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 3, 34-35, 37, 41-42, are rejected under 35 U.S.C. 103(a) as being unpatentable over Anvekar et al. [US 6684072] in view of Freese et al. [US 5291543].

Regarding Claims 1, 34, Anvekar disclosed a system of billing in a user configurable wireless network (abstract), comprising:

A base station controller to establish and maintain communication between a wireless unit and the wireless network; (210, 200; fig.2, col.3; 63-col.4; 14)

A home location register in operative communication with the base station controller to support applications and services; (HLR; 230; fig.2, col.4; 9-14)

A service data node module in direct operative communication with the base station controller and the home location register to coordinate the applications and services supported by the home location register; (300; fig.3, col.4; 15-37).

Anvekar doesn't teach specifically, the service data node module storing at least one of user information, service information and network information and the service data node module allowing the user to implement service creation and service negotiation without service provider intervention and a billing manager in operative communication with the service data node module, to bill the user based on the user implemented service creation and service negotiation. However, Freese teaches in an analogous art, that the service data node module storing at least one of user information, service information and network information and the

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service data node module allowing the user to implement service creation and service negotiation without service provider intervention. (e.g. without operator intervention, provides a metered billing class of service to customers as an aid to controlling their cellular communication expenses; Col.9; 21-50, Abstract) and a billing manager in operative communication with the service data node module, to bill the user based on the user implemented service creation and service negotiation. (e.g. billing unit; Col.9; 21-50, Abstract). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the service data node module storing at least one of user information, service information and network information and the service data node module allowing the user to implement service creation and service negotiation without service provider intervention and a billing manager in operative communication with the service data node module, to bill the user based on the user implemented service creation and service negotiation in order to provide cellular telephone call administration system processes detailed call records from a cellular switch as the calls are processed. This arrangement expedites automatic, electronic distribution of detailed call records to resellers and service provider billing facilities and to the roam billing clearing house. The call administration system, without operator intervention, provides a metered billing class of service to customers as an aid to controlling their cellular communication expenses; and provides for registration of roam sets for service on a cellular switch without need for a billing agreement with the set's home carrier.

Regarding Claim 3, Anvekar disclosed all the particulars of the claim except wherein the billing manager further comprises: a billing mediator in operative connection with the service

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data node to receive and distribute data from the service data node; a billing processor in operative connection with the billing mediator to process the data from the billing mediator; a billing order manager in operative connection with the billing processor to manage the processed data from the billing processor; and a customer information processor in operative connection with the billing order manager to process customer information. However, Freese teaches in an analogous art, that the system of claim 1, wherein the billing manager further comprises: a billing mediator in operative connection with the service data node to receive and distribute data from the service data node; a billing processor in operative connection with the billing mediator to process the data from the billing mediator; a billing order manager in operative connection with the billing processor to manage the processed data from the billing processor; and a customer information processor in operative connection with the billing order manager to process customer information. (e.g. billing unit; Col.9; 21-50, Abstract).

Regarding Claim 35, Anvekar disclosed the method of claim 34, wherein the billing is based on a wireless packet call of the selected service. (400; fig.4, Col.4; 15-59, Col.6; 51-63, Col.7; 32-48, Col.9; 1-12, and 39-57, Col.2; 66-Col.3; 8)

Regarding Claim 37, Anvekar disclosed the method of claim 34, wherein the billing is based on a profile change of the user. (400; fig.4, Col.4; 15-59, Col.6; 51-63, Col.7; 32-48, Col.9; 1-12, and 39-57, Col.2; 66-Col.3; 8)

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Regarding Claim 41, Anvekar disclosed all the particulars of the claim except wherein the service data node module further comprises: a service creation environment configured to store the service information and network information. However, Freese teaches in an analogous art, that the system of claim 1, wherein the service data node module further comprises: a service creation environment configured to store the service information and network information. (e.g. without operator intervention, provides a metered billing class of service to customers as an aid to controlling their cellular communication expenses; Col.9; 21-50, Abstract)

Regarding Claim 42, Anvekar disclosed all the particulars of the claim except a service database configured to store the service information and user information. However, Freese teaches in an analogous art, that the system of claim 1, wherein the service data node module further comprises: a service database configured to store the service information and user information. (e.g. without operator intervention, provides a metered billing class of service to customers as an aid to controlling their cellular communication expenses; Col.9; 21-50, Abstract)

Claims 2, 36, 40, are rejected under 35 U.S.C. 103(a) as being unpatentable over Anvekar & Freese further in view of Bianconi et al. [US 20020119766].

Regarding Claims 2, 40, the above combination disclosed all the particulars of the claim except a database to store quality of services. However, Bianconi teaches in an analogous art,

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that the system of claims 1, 34, wherein the service data node module further comprises: A database to store quality of services; (0010; pg.2). A dynamic billing information processor in operative communication with the database, to determine actual use of a service on a call-by-call or session-by-session basis; (0010; pg.2) and A radius accounting server in operative communication with the dynamic billing information processor, to correlate the determined actual use from the dynamic billing information processor. (0033; pg.4). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include a database to store quality of services in order to provide location based billing of data services.

Regarding Claim 36, the above combination disclosed all the particulars of the claim except a database to store quality of services. However, Bianconi teaches in an analogous art, that the method of claim 34, wherein the billing is based on a quality of service of the selected service. (0010; pg.2).

Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Anvekar & Freese further in view of Lohtia et al.

Regarding Claim 38, the above combination disclosed all the particulars of the claim except wherein the selected service comprises content push services. However, Lohtia teaches in an analogous art, that the method of claim 34, wherein the selected service comprises content push services. (SMS; pg.3; 0024) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include wherein the selected service comprises content push

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services in order to provide information to a communication device in response to a request for particular service.

Claim 39 is rejected under 35 U.S.C. 103(a) as being unpatentable over Anvekar & Freese further in view of Sarkki et al.

Regarding Claim 39, the above combination disclosed all the particulars of the claim except wherein the selected service comprises transaction based services. However, Sarkki teaches in an analogous art, that the method of claim 34, wherein the selected service comprises transaction based services. (Col.4; 1-12) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include wherein the selected service comprises transaction based services in order to provide transaction based billing for telephone services.

Response to Amendments & Remarks

IV. Applicant's arguments with respect to claims 1-3 and 34-42 has been fully considered but is moot in view of the new ground(s) of rejection.

Conclusion

V. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharad Rampuria whose telephone number is (571) 272-7870.

The examiner can normally be reached on M-F. (8:30-5 EST).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000 or

EBC@uspto.gov

/Sharad Rampuria/
Patent Examiner
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